



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-554



Multifunctional Information Distribution System (MIDS)

As of FY 2019 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

~~This document contains information that may be exempt from mandatory disclosure under the FOIA.~~

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Sensitivity Originator

Organization: MIDS Program Office

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Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

Multifunctional Information Distribution System (MIDS)

DoD Component

Navy

Joint Participants

Air Force; Army

Navy is the lead Component as specified in the USD(AT&L) Navy Program Delegation Decisions Acquisition Decision Memorandum (ADM) dated July 24, 2012.

Responsible Office

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References

SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated March 22, 2006

Approved APB

Assistant Secretary of the Navy (Research, Development & Acquisition) (ASN(RDA)) Approved Acquisition Program Baseline (APB) dated November 16, 2017

Mission and Description

The Multifunctional Information Distribution System (MIDS) program consists of two products, MIDS Low Volume Terminal (MIDS-LVT) and MIDS Joint Tactical Radio System (MIDS JTRS).

The MIDS-LVT is the product of the MIDS International Program Office (IPO), a multinational (U.S., France (FRA), Germany (DEU), Italy (ITA), and Spain (ESP)) cooperative development program with joint service participation (U.S. Navy (USN), U.S. Army (USA), and U.S. Air Force (USAF)). The DoD established the program to design, develop and deliver low volume, lightweight tactical information system terminals for U.S. and Allied fighter aircraft, bombers, helicopters, ships, and ground sites. MIDS-LVT provides interoperability with North Atlantic Treaty Organization (NATO) and non-NATO users, significantly increasing force effectiveness and minimizing hostile actions and friend-on-friend engagements. Three principal configurations of the terminal are in production and use an open system, modular architecture. MIDS-LVT (1) includes voice, Tactical Air Navigation (TACAN) and variable power transmission and provides a Link 16 capability to the F/A-18, which was previously unable to use Joint Tactical Information Distribution System (JTIDS) due to space and weight limitations. MIDS-LVT(2) is an Army variant of MIDS-LVT tailored as a functional replacement for the JTIDS Class 2M terminal. MIDS-LVT(3), also referred to, as MIDS Fighter Data Link (FDL), is a reduced function terminal for the Air Force (no voice, no TACAN). MIDS-LVT contracted for Block Upgrade 2 (BU2) to incorporate Cryptographic (Crypto) Modernization (CM), Enhanced Throughput (ET), and Frequency Remapping (FR) in the MIDS-LVT terminal.

MIDS JTRS is designed as a U.S. Only Pre-Planned Product Improvement (P3I), executed as an Engineering Change Proposal (ECP) to the production MIDS-LVT configuration, and is fully compatible with MIDS-LVT. MIDS JTRS completed qualification in first quarter of FY 2010. It facilitated the Joint Program Executive Office (JPEO) JTRS incremental approach for fielding advanced JTRS transformational networking capability and transformed the MIDS-LVT into a four channel, Software Communications Architecture (SCA) compliant, Joint Tactical Radio. A form-fit-function replacement to MIDS-LVT, MIDS JTRS also adds three programmable 2 Megahertz (MHz) to 2 Gigahertz (GHz) channels capable of hosting the JTRS legacy and networking Waveforms (WFs). In addition to the Link 16, TACAN, and voice functionality found in MIDS-LVT, and MIDS-LVT BU2, MIDS JTRS adds capabilities such as CM, ET, FR, software programmability, Four Net Concurrent Multi-Netting with Concurrent Contention Receive (CMN-4), and Tactical Targeting Network Technology (TTNT). CMN-4 and TTNT are integral components of Naval Integrated Fire Control – Counter Air (NIFC-CA) and link together aircraft and the aircraft carrier itself.

Executive Summary

Program Highlights Since Last Report

The MIDS Program Office (MPO) reached a significant milestone in November 2017 by delivering its 1,000th MIDS Joint Tactical Radio System (JTRS) Terminal. Together with over 10,000 MIDS-Low Volume Terminal (LVT) Terminals procured and delivered, these milestones reflect the strong commitment by the United States, the 5-Nation Partners covered the International Program Office Program Memorandum of Understanding, and its industry partners to deliver interoperable, affordable and secure Link 16 and programmable networking technologies for the Joint, Coalition, and International Warfighter.

The Advisory Panel on Streamlining and Codifying Acquisition Regulations (Section 809 Panel) Team #5 selected the MIDS Program to be reviewed as an example of a successful Department of Defense program. The MPO briefed the Section 809 Panel Team #5 professional staff members on June 19, 2017; the brief/discussion was well received by the Panel Team and a final report is anticipated to be finalized in the 2nd quarter FY 2018.

MIDS-LVT Block Upgrade 2 (BU2) hardware and software development contract was awarded in November 2013. This Engineering Change Proposal (ECP) provides the critical upgrades to meet the National Security Agency mandate for Crypto Modernization (CM) and National Telecommunications and Information Agency and Federal Aviation Agency mandate for Frequency Remapping (FR) capability to the MIDS-LVT terminal.

MIDS JTRS Four Net Concurrent Multi-Netting with Concurrent Contention Receive (CMN-4) is an enhancement to Link 16 and provides a significant capability upgrade to the Fleet. Software discrepancies discovered during Developmental Test in March 2017 prevented MIDS JTRS CMN-4 entrance to Operational Testing. Engineering Release 0G software stability has improved over the year and MIDS JTRS CMN-4 is on track to support an Operational Assessment (OA) in 3Q FY 2018. A separate specific and distinct effort will transform the MIDS JTRS terminal into a true software defined radio allowing rapid technology insertion in the field required to outpace the evolving threat including software updates for maintenance, reliability, security, cyber, interoperability and capacity. Specification development and planning is underway and the Development Request for Proposal (RFP) was released to industry December 21, 2017 with an anticipated contract award in April 2018.

The U.S. Air Force continues to fund development efforts contracted by the MPO to support F-15, F-16 and F-22 migration to MIDS JTRS CMN-4. The MIDS JTRS F-15 effort successfully completed CFAQT in July 2017 and will deliver a final integrated build in May 2018. Government First Article Qualification Test is scheduled to begin in April 2018. The MIDS JTRS F-16 development contract was awarded December 21, 2017. The MIDS JTRS F-22 successfully completed its Delta Design Review in December 2017. The MPO continues to coordinate with the PEO (Joint Strike Fighter) to address Link 16 interoperability requirements for future implementation into the platform.

MIDS JTRS Tactical Targeting Network Technology (TTNT) provides an Internet Protocol-based networking capability on tactical aircraft. MIDS JTRS TTNT development started in October 2014 and evolved into two concurrent development efforts due to the AWS-3 sell off of a subset of existing TTNT L-Band frequencies. The second effort, TTNT Spectrum Relocation, is building off the MIDS JTRS TTNT EDM Terminal L-Band design to support TTNT operations in the combined L-Band and S-Band frequency spectrum.

The MIDS Program awarded the MIDS JTRS TTNT System Design and Development effort to Data Link Solutions and ViaSat in September 2016 to perform all of the necessary design, integration, testing, and qualification work to support the MIDS JTRS TTNT terminal. As of this reporting period, all eight S-Band Engineering Development Models (EDMs) have been completed and delivered to support early S-Band integration efforts. The MIDS Program is expecting late delivery of the TTNT platform integration and fielding due to an Operational Navy Programming mark and contractor cost overruns in the MIDS-LVT BU2. Efforts are underway to mitigate the issue in FY 2018 and FY 2019 to ensure TTNT delivers in FY 2022.

Significant MIDS production contract actions during this reporting period include:

- Lot 6 MIDS JTRS TTNT Production Representative Terminal (PRT) – Firm Fixed Price Delivery Order under the DLS and ViaSat Production contracts for 47 PRTs. (June 2017)
- Lot 18 MIDS-LVT Production – Firm Fixed Price Delivery Orders to DLS and ViaSat Production contracts for 38 Terminals. (August 2017)
- Lot 6a MIDS JTRS CMN-4 Production – Firm Fixed Price Delivery Order under the DLS Production contract for 203 Terminals. (September 2017)

MIDS APB Change 5 reflects has been approved by ASN (RD&A) November 16, 2017.

There are no significant software-related issues with this program at this time.

History of Significant Developments Since Program Initiation

History of Significant Developments Since Program Initiation	
Date	Significant Development Description
April 1990	Joint Requirements Oversight Council Memorandum (JROCM 031-90) approved the Mission Need Statement (MNS) for MIDS-LVT.
December 1993	At MS II, USD(AT&L) authorized MIDS to proceed with MIDS-LVT EMD.
September 2001	USD(AT&L) directed the MIDS Program to update the Acquisition Strategy to include a JTRS Compliance Migration Strategy.
September 2003	At MS III, Assistant Secretary of the Navy for Research, Development & Acquisition (ASN(RDA)) authorized Full Rate Production for MIDS-LVT.
July 2004	ASN(RDA) approved the Acquisition Strategy to develop MIDS JTRS via an Engineering Change Proposal (ECP).
February 2005	USD(AT&L) authorized the establishment of the Joint Program Executive Office (JPEO) Joint Tactical Radio System (JTRS) for authority over all JTRS products, including MIDS.
May 2008	JROCM 112-08 approved MIDS JTRS Capability Production Document.
December 2009	MIDS JTRS completed Contractor First Article Qualification Test and Government First Article Qualification Test (GFAQT). USD(AT&L) approved the Limited Production & Fielding of MIDS JTRS.
April 2011	MIDS JTRS completed Initial Operational Test & Evaluation including Verification of the Correction of Deficiencies (VCD), COMOPTEVFOR (Naval Command Operational Test and Evaluation Force) and Director of Operational Test & Evaluation Reports.
April 2012	USD(AT&L) approved the Full Production and Fielding of MIDS JTRS.
July 2012	USD(AT&L) directed the JPEO JTRS reorganization and realignment to transfer MIDS to Navy MDA alignment and designated MIDS as an ACAT IC program.
November 2012	ASN(RDA) approved MIDS JTRS IOC.
January 2013	ASN(RDA) designated MIDS as the Program Manager Air/Program Manager Warfare-101.
January 2013	ASN(RDA) authorized development of MIDS JTRS TTNT and MIDS JTRS CMN-4 capabilities to be managed as ECPs to the MIDS ACAT IC Program.
January 2013	PEO(Tactical Aircraft) assigned MIDS as the Naval Integrated Fire Control – Counter Air From the Air Advanced Tactical Data Link (ATDL) lead to coordinate with F/A-18, E-2D, EA-18G and other platform offices.
May 2013	Procurement, and Operating and Sustainment (O&S) breaches were realized due to increased procurement quantities of MIDS terminals by F/A-18. Program Deviation Report was submitted by the MIDS PM and approved by ASN(RD&A).
July 2013	MIDS JTRS CMN-4 Cooperative Development delivery orders were awarded to ViaSat and DLS.
November 2013	Due to the May Program Deviation Report, a revised APB was approved by ASN(RD&A).
November 2013	MIDS-LVT Block Upgrade 2 (BU2) Award. MIDS-LVT BU2 development contracts were awarded to DLS, EuroMIDS and ViaSat. MIDS-LVT BU2 is a 39-month ECP to bring National Security Agency mandated Crypto Modernization and National Telecommunications and Information Agency and Federal Aviation Administration mandated Frequency Remapping capabilities to the MIDS-LVT Link-16 product line.
August 2014	MIDS JTRS TTNT L-Band Full Development Contract was awarded to DLS and ViaSat.
November 2014	MIDS JTRS TTNT waveform development was completed. The next step is early porting and demonstration of the waveform.

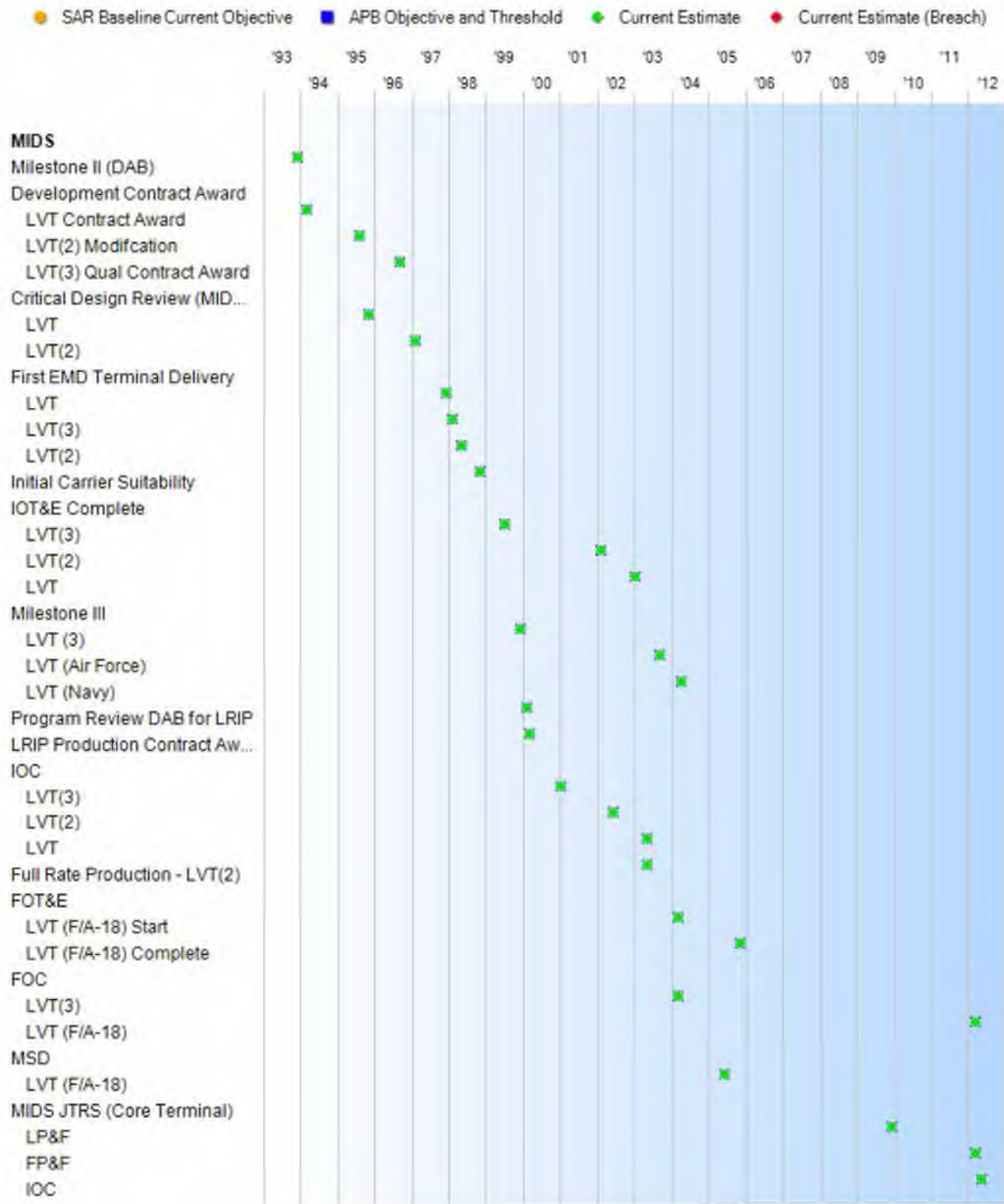
March 2015	Conducted the first MIDS JTRS CMN-4 flight on F/A-18 aircraft at China Lake.
May 2015	MIDS Modernization Increment 1 (MMI 1) demonstration testing was conducted, and development delivery orders were awarded to DLS and ViaSat.
June 2015	Responsibilities for the Link-16 waveform were transferred to MIDS program office from Joint Tactical Networking Center (JTNC).
January 2016	The MIDS Program delivered its 10,000 th MIDS-LVT terminal.
November 2017	The MIDS Program delivered its 1,000th MIDS JTRS terminal.
November 2017	ASN(RD&A) delegated future approval authority to PEO (Tactical Aircraft) for procurements of the MIDS JTRS CMN-4 terminals and authority for production fielding of the MIDS JTRS CMN-4 terminal with H-12 and H-14 based off of satisfactory results.

Threshold Breaches

APB Breaches		
Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
O&S Cost		<input type="checkbox"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

Nunn-McCurdy Breaches		
Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

Schedule



Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone II (DAB)	Dec 1993	Dec 1993	Dec 1993	Dec 1993
Development Contract Award				
LVT Contract Award	Mar 1994	Mar 1994	Mar 1994	Mar 1994
LVT(2) Modification	Aug 1995	Aug 1995	Aug 1995	Aug 1995
LVT(3) Qual Contract Award	Sep 1996	Sep 1996	Sep 1996	Sep 1996
Critical Design Review (MIDS Terminal)	N/A			
LVT	Nov 1995	Nov 1995	Nov 1995	Nov 1995
LVT(2)	Feb 1997	Feb 1997	Feb 1997	Feb 1997
First EMD Terminal Delivery				
LVT	Dec 1997	Dec 1997	Dec 1997	Dec 1997
LVT(3)	Feb 1998	Feb 1998	Feb 1998	Feb 1998
LVT(2)	May 1998	May 1998	May 1998	May 1998
Initial Carrier Suitability	Nov 1998	Nov 1998	Nov 1998	Nov 1998
IOT&E Complete				
LVT(3)	Jul 1999	Jul 1999	Jul 1999	Jul 1999
LVT(2)	Feb 2002	Feb 2002	Feb 2002	Feb 2002
LVT	Jan 2003	Jan 2003	Jan 2003	Jan 2003
Milestone III				
LVT (3)	Dec 1999	Dec 1999	Dec 1999	Dec 1999
LVT (Air Force)	Sep 2003	Sep 2003	Sep 2003	Sep 2003
LVT (Navy)	Apr 2004	Apr 2004	Apr 2004	Apr 2004
Program Review DAB for LRIP	Feb 2000	Feb 2000	Feb 2000	Feb 2000
LRIP Production Contract Award	Mar 2000	Mar 2000	Mar 2000	Mar 2000
IOC				
LVT(3)	Jan 2001	Jan 2001	Jan 2001	Jan 2001
LVT(2)	Jun 2002	Jun 2002	Jun 2002	Jun 2002
LVT	May 2003	May 2003	May 2003	May 2003
Full Rate Production - LVT(2)	May 2003	May 2003	May 2003	May 2003
FOT&E				
LVT (F/A-18) Start	Mar 2004	Mar 2004	Mar 2004	Mar 2004
LVT (F/A-18) Complete	Nov 2005	Nov 2005	Nov 2005	Nov 2005
FOC				
LVT(3)	Mar 2004	Mar 2004	Mar 2004	Mar 2004
LVT (F/A-18)	Mar 2012	Mar 2012	Mar 2012	Mar 2012

MSD				
LVT (F/A-18)	Jun 2005	Jun 2005	Jun 2005	Jun 2005
MIDS JTRS (Core Terminal)				
LP&F	N/A	Dec 2009	Dec 2009	Dec 2009
FP&F	N/A	Mar 2012	Mar 2012	Mar 2012
IOC	N/A	May 2012	May 2012	May 2012

Change Explanations

None

Acronyms and Abbreviations

FOT&E - Follow-On Test and Evaluation
 FP&F - Full Production and Fielding
 IOT&E - Initial Operational Test and Evaluation
 JTRS - Joint Tactical Radio System
 LP&F - Limited Production and Fielding
 LVT - Low Volume Terminal
 MSD - Material Support Date
 Qual - Qualification

(U//FOUO) Performance

Performance Characteristics			
SAR Baseline Production Estimate	Current APB Production Objective/Threshold	Demonstrated Performance	Current Estimate

(b)(3):10 USC § 130

(b)(3):10 USC § 130

(b)(3):10 USC § 130

<=1 detected error	(T=O) <=1 detected error	Passed	<=1 detected error
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(b)(3):10 USC § 130



Restart <10 seconds (Link-16 waveform)

Requirements Reference

MIDS ORD (MIDS-LVT) dated July 25, 2004 and MIDS JTRS CPD dated July 16, 2013

Change Explanations

None

~~(U//FOUO)~~ Notes

(b)(3):10 USC § 130

The Performance Characteristics for MIDS is ~~For Official Use Only. Exempt from FOIA release under 5 U.S.C. 552(b)(3).~~

Acronyms and Abbreviations

AFCAA - Air Force Cost Analysis Agency
 Ao - Operational Availability
 ASN (RD&A) - Assistant Secretary of the Navy for Research, Development & Acquisition
 ATO - Authority to Operate
 BIT - Built in Test
 BU2 - Block Upgrade 2
 C2 - Command and Control
 CFAQT - Contractor First Article Qualification Testing
 CMEP - Coded Message Error Probability
 CMN/CCR - Concurrent Multi-Netting/Concurrent Contention Receive
 CMN-4 - Four Net Concurrent Multi-Netting with Concurrent Contention Receive
 CPFF - Cost Plus Fixed Fee
 cu. ft. - cubic feet
 DAA - Designated Approving Authority
 db - decibel(s)
 DISR - Defense Information Standards Registry
 ECP - Engineering Change Proposal
 ET - Enhanced Throughput
 F3I - Form, Fit, Function and interface
 FDL - Fighter Data Link
 FFP - Firm Fixed Price
 FOT&E - Follow-on Test and Evaluation
 FP&F - Full Production & Fielding
 GFAQT - Government First Article Qualification Testing
 GIG IT - Global Information Grid Information Technology
 HPA - High Power Amplifier
 hr - hour(s)
 IATO - Interim Authority to Operate
 IBIT - Initialization Built in Test
 IDIQ - Indefinite Delivery Indefinite Quantity
 IER - Information Exchange Requirements
 IF - Interface
 JITC - Joint Interoperability Test Command
 JTIDS - Joint Tactical Information Distribution System
 JTRS - Joint Tactical Radio System
 kbps - kilobits per second
 KIPs - Key Interface Profiles
 lbs - Pounds
 LET - Link 16 Enhanced Throughput
 LOS - Line of sight
 LVT - Low Volume Terminal
 MCMTOMF - Mean Corrective Maintenance Time for Operational Mission Failures
 MFHBFA - Mean Flight Hours Between False Alarms
 MFHBOMF - Mean Flight Hours Between Operational Mission Failures
 MHz - Megahertz
 MIDS - Multifunctional Information Distribution System
 Mil-Std - Military Standard
 min - minute(s)
 MJCS - Memorandum Joint Chiefs of Staff
 MRT - Mean Repair Time
 MTBF - Mean Time Between Failure
 MTBOMF - Mean Time Between Operational Mission Failures

MTTR - Mean Time to Repair
NCOW RM - Net-Centric Operations and Warfare Reference Model
nm, nmi - Nautical mile
NSA - National Security Agency
OE - Operational Environment
O-Level - Organization Level
OTAR - Over the Air Re-keying
PAC4 - Packed-4
PCD - Percent Correct Detect
RMD - Resource Management Decision
sec - second(s)
SINGARS - Single Channel Ground and Airborne Radio System
SMORD - Single MIDS ORD
SSS - System Segment Specification
STANAG - Standardization Agreement
TACAN - Tactical Air Navigation
TTNT - Tactical Targeting Network Technology
TV - Technical View
w - watt(s)

Track to Budget

General Notes

The current RDT&E increased to fund MIDS Joint Tactical Radio System (JTRS) Modernization Increment 2 (MMI2)..
The current production terminal quantity estimate increased by a total of 522 (53 Development/469 Procurement) terminals due to a procurement order from the U.S. Air Force (Platforms: F-15, B-1, B-52).

RDT&E

Appn	BA	PE		
Navy	1319	07	0205604N	
			Project	Name
			2126	ATDLS Integration (Shared) (Sunk)
Navy	1319	05	0205604N	
			Project	Name
			2126	ATDLS Integration (Shared) (Sunk)
Navy	1319	07	0205604N	
			Project	Name
			3020	MIDS/JTRS (Shared)
Navy	1319	05	0604234N	
			Project	Name
			3051	E-2D Advanced Hawkeye (Shared) (Sunk)
Navy	1319	05	0604270N	
			Project	Name
			0556	EW Counter Response (Shared) (Sunk)
			2781	Navy EA-6B Integration/EA-6B (Shared) (Sunk)
			E0556	EA-6B Integration/EA-6B (Shared) (Sunk)
			E2781	EA-6B Integration/EA-6B (Shared) (Sunk)
Navy	1319	05	0604280N	
			Project	Name
			3020	MIDS/JTRS (Shared) (Sunk)
			3073	AMF/JTRS (Shared) (Sunk)
Army	2040	05	0603713A	
			Project	Name
			D370	Army MIDS (Shared) (Sunk)
Army	2040	05	0604280A	
			Project	Name
			162	Network Enterprise Domain (NED) (Shared) (Sunk)
Air Force	3600	07	0101126F	
			Project	Name
			675344	B-1B Modernization (Shared) (Sunk)
Air Force	3600	07	0101127F	
			Project	Name

	675345	B-2 Modernization	(Shared) (Sunk)
Air Force	3600 05	0207130F	
	Project	Name	
	F15	Air Force MIDS/F-15C/D	(Shared) (Sunk)
Air Force	3600 05	0207133F	
	Project	Name	
	672671	Air Force MIDS/F-16	(Shared) (Sunk)
Air Force	3600 07	0207133F	
	Project	Name	
	672671	F-16 Squadrons	(Shared) (Sunk)
Air Force	3600 05	0207134F	
	Project	Name	
	674703	Air Force MIDS/F-15E	(Shared) (Sunk)
Air Force	3600 07	0207134F	
	Project	Name	
	676020	B-1B Modernization	(Shared) (Sunk)
Air Force	3600 07	0207138F	
	Project	Name	
	674788	F-22 Mandates	(Shared) (Sunk)
Air Force	3600 07	0207417F	
	Project	Name	
	67411L	Airborne Warning and Control System (AWACS)	(Shared) (Sunk)
Air Force	3600 07	0207448F	
	Project	Name	
	675045	C2ISR Tactical Data Link	(Shared) (Sunk)
Air Force	3600 07	0208006F	
	Project	Name	
	675380	Combat Air Forces (CAF) Ping Systems	(Shared) (Sunk)
Air Force	3600 07	0305207F	
	Project	Name	
	674754	Manned Reconnaissance Systems	(Shared) (Sunk)
Air Force	3600 05	0604240F	
	Project	Name	
	11B002	Air Force MIDS	(Shared) (Sunk)
Air Force	3600 05	0604280F	
	Project	Name	
	655068	Joint Tactical Radio System (JTRS)	(Shared) (Sunk)
Air Force	3600 05	0604281F	
	Project	Name	
	655050	TLC System Integration	(Shared) (Sunk)
Defense-Wide	0400 05	0603883C	
	Project	Name	

	0010		DOD	(Shared)	(Sunk)
Defense-Wide	0400	05	0604771D		
	Project		Name		
	P771		OSD, DA/JTRS	(Shared)	(Sunk)
	P773		OSD, DA/Multifunctional Information Distribution System	(Shared)	(Sunk)

Procurement					
	Appn	BA	PE		
Navy	1506	01	0204136N		
	Line Item		Name		
	0145		F/A-18E/F (Fighter) Hornet	(Shared)	(Sunk)
Navy	1506	05	0204154N		
	Line Item		Name		
	0511		EA-6 Series	(Shared)	
Navy	1506	05	0204136N		
	Line Item		Name		
	0525		F-18 Series	(Shared)	
Navy	1506	05	0204152N		
	Line Item		Name		
	0544		E-2 Series	(Shared)	(Sunk)
Navy	1611	02	0204112N		
	Line Item		Name		
	2001		Carrier Replacement Program	(Shared)	
	2086		Multi-Purpose CVNs	(Shared)	(Sunk)
Navy	1611	02	0204222N		
	Line Item		Name		
	2122		DDG-51	(Shared)	
Navy	1611	02	0204230N		
	Line Item		Name		
	2127		Littoral Combat Ship	(Shared)	
Navy	1611	03	0204411N		
	Line Item		Name		
	3035		Amphibious Assault Ships	(Shared)	(Sunk)
	3036		LPD-17	(Shared)	
Navy	1611	05	0204411N		
	Line Item		Name		
	5110		Outfitting	(Shared)	
Navy	1810	02	0205604N		
	Line Item		Name		
	2614		Advanced Tactical Data Link System	(Shared)	
Army	2035	02	0214400A		

			Line Item	Name	
			B22603	Radio Terminal Set, MIDS-LVT (2)	(Shared)
Air Force	3010	05	0207446F		
			Line Item	Name	
			B00200	B-2A	(Shared)
Air Force	3010	05	0207130F		
			Line Item	Name	
			F01500	F-15	(Shared) (Sunk)
Air Force	3010	07	0207132F		
			Line Item	Name	
			F01500	F-15	(Shared) (Sunk)
Air Force	3010	05	0207133F		
			Line Item	Name	
			F01600	F-16	(Shared)
Air Force	3010	07	0207133F		
			Line Item	Name	
			F0160P	F-16	(Shared) (Sunk)
Air Force	3010	05	0207423F		
			Line Item	Name	
			MN9860	Joint Tactical Radio System	(Shared) (Sunk)
Air Force	3010	05	0207133F		
			Line Item	Name	
			OTHACF	Other Aircraft	(Shared) (Sunk)
			Notes: Battlefield ABN Comm Node (BACN)		
Air Force	3080	03	0207448F		
			Line Item	Name	
			831010	Comsec Equipment	(Shared) (Sunk)
			834010	General Information Technology	(Shared) (Sunk)
Air Force	3080	03	0401840F		
			Line Item	Name	
			834070	Mobility Command and Control	(Shared)
Air Force	3080	03	0201131F		
			Line Item	Name	
			835140	USCENTCOM	(Shared)
			Notes: AFCENT		
Air Force	3080	02	0207133F		
			Line Item	Name	
			F01600	F-16	(Shared) (Sunk)
Defense-Wide	0300	02			
			Line Item	Name	
			10	DOD	(Shared) (Sunk)

Defense-Wide 0300 02 0208865C

Line Item	Name
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2257	DA, Patriot	(Shared) (Sunk)
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Defense-Wide 0300 02 0208861C

Line Item	Name
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2260	DA, THAAD	(Shared) (Sunk)
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Defense-Wide 0300 02

Line Item	Name
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30	GAPO	(Shared) (Sunk)
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Cost and Funding

Cost Summary

Total Acquisition Cost						
Appropriation	BY 2003 \$M			BY 2003 \$M	TY \$M	
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective
RDT&E	869.4	1849.9	2034.9	1877.5	825.8	2029.7
Procurement	955.4	2220.5	2442.6	2354.5	993.1	2756.2
Flyaway	--	--	--	2195.4	--	--
Recurring	--	--	--	2122.8	--	--
Non Recurring	--	--	--	72.6	--	--
Support	--	--	--	159.1	--	--
Other Support	--	--	--	37.6	--	--
Initial Spares	--	--	--	121.5	--	--
MILCON	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0
Total	1824.8	4070.4	N/A	4232.0	1818.9	4785.9

Current APB Cost Estimate Reference

The generated point estimate is based on the developed Cost Estimating Relationships (CERs) and inputted sunk costs, dated July 25, 2017

Cost Notes

In accordance with Section 842 of the National Defense Authorization Act for FY 2017, which amended title 10 U.S.C. § 2334, the Director of Cost Assessment and Program Evaluation, and the Secretary of the military department concerned or the head of the Defense Agency concerned, must issue guidance requiring a discussion of risk, the potential impacts of risk on program costs, and approaches to mitigate risk in cost estimates for MDAPs and major subprograms. The information required by the guidance is to be reported in each SAR. This guidance is not yet available; therefore, the information on cost risk is not contained in this SAR.

RDT&E costs include the MIDS Low Volume Terminal (MIDS-LVT) and MIDS Joint Tactical Radio System (MIDS JTRS) terminal development, terminal acquisition, integration and test on the United States Navy platforms for all current MIDS Program Management Office enhancement efforts.

Procurement costs are for MIDS-LVT and MIDS JTRS terminals purchased by the platforms.

The costs of platform installation and platform kits, and United States Air Force and United States Army platform integration and testing of MIDS-LVT and MIDS JTRS are to be included in the respective budgets and baseline agreements of the various platforms implementing MIDS.

Total Quantity			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	143	659	707
Procurement	2821	8469	8939
Total	2964	9128	9646

Quantity Notes

The unit of measure is terminals.

Procurement quantities include MIDS terminals for United States Navy, United States Air Force, and United States Army platforms. The current estimate includes MIDS Joint Tactical Radio System (MIDS JTRS) procurement quantities for the Phase 2B Core terminals, Four Net Concurrent Multi-Netting with Concurrent Contention Receive (CMN-4), and Tactical Targeting Network Technology (TTNT).

Procurement budgets include funding to upgrade terminals, e.g. make a Core terminal CMN-4 capable, CMN-4 to TTNT, and MIDS-LVT to BU2. However, these terminals are not included in future quantity counts as they have already been accounted for when they were initially procured.

The current production terminal procurement estimate increased by a total of 518 (48 Development/470 Procurement) terminals due to the procurement orders from the U.S. Navy and Air Force.

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2019 President's Budget / December 2017 SAR (TY\$ M)									
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
RDT&E	1857.7	50.3	59.5	28.8	23.3	23.1	23.5	0.0	2066.2
Procurement	1725.5	154.0	246.3	227.9	218.8	131.6	72.0	161.3	2937.4
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2019 Total	3583.2	204.3	305.8	256.7	242.1	154.7	95.5	161.3	5003.6
PB 2018 Total	3506.2	206.7	295.0	229.7	178.0	107.0	49.4	11.1	4583.1
Delta	77.0	-2.4	10.8	27.0	64.1	47.7	46.1	150.2	420.5

Quantity Summary										
FY 2019 President's Budget / December 2017 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Development	707	0	0	0	0	0	0	0	0	707
Production	0	6076	452	741	558	466	288	119	239	8939
PB 2019 Total	707	6076	452	741	558	466	288	119	239	9646
PB 2018 Total	657	6132	435	746	525	347	184	67	33	9126
Delta	50	-56	17	-5	33	119	104	52	206	520

Cost and Funding

Annual Funding By Appropriation

Annual Funding								
0400 RDT&E Research, Development, Test, and Evaluation, Defense-Wide								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1990	--	--	--	--	--	--	--	9.0
1991	--	--	--	--	--	--	--	5.0
1992	--	--	--	--	--	--	--	16.5
1993	--	--	--	--	--	--	--	23.9
1994	--	--	--	--	--	--	--	23.3
1995	--	--	--	--	--	--	--	49.6
1996	--	--	--	--	--	--	--	42.7
1997	--	--	--	--	--	--	--	36.9
1998	--	--	--	--	--	--	--	45.2
1999	--	--	--	--	--	--	--	27.9
2000	--	--	--	--	--	--	--	39.0
2001	--	--	--	--	--	--	--	12.0
2002	--	--	--	--	--	--	--	13.1
2003	--	--	--	--	--	--	--	7.7
2004	--	--	--	--	--	--	--	7.0
2005	--	--	--	--	--	--	--	9.6
2006	--	--	--	--	--	--	--	1.0
2007	--	--	--	--	--	--	--	2.0
2008	--	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--	0.8
2010	--	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--	0.2
2012	--	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--	0.3
Subtotal	70	--	--	--	--	--	--	372.7

Annual Funding							
0400 RDT&E Research, Development, Test, and Evaluation, Defense-Wide							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1990	--	--	--	--	--	--	11.1
1991	--	--	--	--	--	--	5.9
1992	--	--	--	--	--	--	19.1
1993	--	--	--	--	--	--	27.2
1994	--	--	--	--	--	--	26.0
1995	--	--	--	--	--	--	54.3
1996	--	--	--	--	--	--	45.9
1997	--	--	--	--	--	--	39.2
1998	--	--	--	--	--	--	47.6
1999	--	--	--	--	--	--	29.0
2000	--	--	--	--	--	--	40.0
2001	--	--	--	--	--	--	12.1
2002	--	--	--	--	--	--	13.1
2003	--	--	--	--	--	--	7.6
2004	--	--	--	--	--	--	6.7
2005	--	--	--	--	--	--	9.0
2006	--	--	--	--	--	--	0.9
2007	--	--	--	--	--	--	1.8
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	0.7
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	0.2
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	0.2
Subtotal	70	--	--	--	--	--	397.6

Annual Funding							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1990	--	--	--	--	--	--	2.9
1991	--	--	--	--	--	--	4.7
1992	--	--	--	--	--	--	10.0
1993	--	--	--	--	--	--	12.4
1994	--	--	--	--	--	--	23.0
1995	--	--	--	--	--	--	18.4
1996	--	--	--	--	--	--	31.0
1997	--	--	--	--	--	--	28.2
1998	--	--	--	--	--	--	39.8
1999	--	--	--	--	--	--	45.4
2000	--	--	--	--	--	--	62.3
2001	--	--	--	--	--	--	37.7
2002	--	--	--	--	--	--	26.2
2003	--	--	--	--	--	--	16.8
2004	--	--	--	--	--	--	22.4
2005	--	--	--	--	--	--	27.6
2006	--	--	--	--	--	--	98.2
2007	--	--	--	--	--	--	162.5
2008	--	--	--	--	--	--	77.2
2009	--	--	--	--	--	--	26.6
2010	--	--	--	--	--	--	16.2
2011	--	--	--	--	--	--	24.2
2012	--	--	--	--	--	--	100.8
2013	--	--	--	--	--	--	47.2
2014	--	--	--	--	--	--	120.7
2015	--	--	--	--	--	--	80.5
2016	--	--	--	--	--	--	71.0
2017	--	--	--	--	--	--	68.9
2018	--	--	--	--	--	--	50.3
2019	--	--	--	--	--	--	59.5
2020	--	--	--	--	--	--	28.8
2021	--	--	--	--	--	--	23.3
2022	--	--	--	--	--	--	23.1
2023	--	--	--	--	--	--	23.5
Subtotal	228	--	--	--	--	--	1511.3

Annual Funding 1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1990	--	--	--	--	--	--	3.6
1991	--	--	--	--	--	--	5.6
1992	--	--	--	--	--	--	11.6
1993	--	--	--	--	--	--	14.1
1994	--	--	--	--	--	--	25.6
1995	--	--	--	--	--	--	20.1
1996	--	--	--	--	--	--	33.3
1997	--	--	--	--	--	--	30.0
1998	--	--	--	--	--	--	41.9
1999	--	--	--	--	--	--	47.3
2000	--	--	--	--	--	--	63.9
2001	--	--	--	--	--	--	38.2
2002	--	--	--	--	--	--	26.3
2003	--	--	--	--	--	--	16.6
2004	--	--	--	--	--	--	21.5
2005	--	--	--	--	--	--	25.8
2006	--	--	--	--	--	--	89.2
2007	--	--	--	--	--	--	144.0
2008	--	--	--	--	--	--	67.2
2009	--	--	--	--	--	--	22.9
2010	--	--	--	--	--	--	13.7
2011	--	--	--	--	--	--	20.0
2012	--	--	--	--	--	--	82.0
2013	--	--	--	--	--	--	38.0
2014	--	--	--	--	--	--	95.8
2015	--	--	--	--	--	--	63.1
2016	--	--	--	--	--	--	54.7
2017	--	--	--	--	--	--	52.3
2018	--	--	--	--	--	--	37.5
2019	--	--	--	--	--	--	43.6
2020	--	--	--	--	--	--	20.7
2021	--	--	--	--	--	--	16.4
2022	--	--	--	--	--	--	15.9
2023	--	--	--	--	--	--	15.9
Subtotal	228	--	--	--	--	--	1318.3

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1997	--	--	--	--	--	--	0.5
1998	--	--	--	--	--	--	2.4
1999	--	--	--	--	--	--	5.2
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	0.1
2002	--	--	--	--	--	--	3.1
2003	--	--	--	--	--	--	0.6
2004	--	--	--	--	--	--	3.1
2005	--	--	--	--	--	--	4.4
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	1.5
2008	--	--	--	--	--	--	1.9
2009	--	--	--	--	--	--	3.3
2010	--	--	--	--	--	--	0.2
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	0.2
2013	--	--	--	--	--	--	0.4
2014	--	--	--	--	--	--	0.2
Subtotal	78	--	--	--	--	--	27.1

Annual Funding							
2040 RDT&E Research, Development, Test, and Evaluation, Army							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1997	--	--	--	--	--	--	0.5
1998	--	--	--	--	--	--	2.5
1999	--	--	--	--	--	--	5.4
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	0.1
2002	--	--	--	--	--	--	3.1
2003	--	--	--	--	--	--	0.6
2004	--	--	--	--	--	--	3.0
2005	--	--	--	--	--	--	4.1
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	1.3
2008	--	--	--	--	--	--	1.6
2009	--	--	--	--	--	--	2.8
2010	--	--	--	--	--	--	0.2
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	0.2
2013	--	--	--	--	--	--	0.3
2014	--	--	--	--	--	--	0.2
Subtotal	78	--	--	--	--	--	25.9

Annual Funding								
3600 RDT&E Research, Development, Test, and Evaluation, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1997	--	--	--	--	--	--	--	3.9
1998	--	--	--	--	--	--	--	8.0
1999	--	--	--	--	--	--	--	0.2
2000	--	--	--	--	--	--	--	6.3
2001	--	--	--	--	--	--	--	3.9
2002	--	--	--	--	--	--	--	2.9
2003	--	--	--	--	--	--	--	4.3
2004	--	--	--	--	--	--	--	14.3
2005	--	--	--	--	--	--	--	19.6
2006	--	--	--	--	--	--	--	4.5
2007	--	--	--	--	--	--	--	2.2
2008	--	--	--	--	--	--	--	1.4
2009	--	--	--	--	--	--	--	5.7
2010	--	--	--	--	--	--	--	1.5
2011	--	--	--	--	--	--	--	2.4
2012	--	--	--	--	--	--	--	2.2
2013	--	--	--	--	--	--	--	3.6
2014	--	--	--	--	--	--	--	2.6
2015	--	--	--	--	--	--	--	20.9
2016	--	--	--	--	--	--	--	14.6
2017	--	--	--	--	--	--	--	30.1
Subtotal	331	--	--	--	--	--	--	155.1

Annual Funding							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1997	--	--	--	--	--	--	4.1
1998	--	--	--	--	--	--	8.4
1999	--	--	--	--	--	--	0.2
2000	--	--	--	--	--	--	6.5
2001	--	--	--	--	--	--	4.0
2002	--	--	--	--	--	--	2.9
2003	--	--	--	--	--	--	4.3
2004	--	--	--	--	--	--	13.8
2005	--	--	--	--	--	--	18.4
2006	--	--	--	--	--	--	4.1
2007	--	--	--	--	--	--	2.0
2008	--	--	--	--	--	--	1.2
2009	--	--	--	--	--	--	4.9
2010	--	--	--	--	--	--	1.3
2011	--	--	--	--	--	--	2.0
2012	--	--	--	--	--	--	1.8
2013	--	--	--	--	--	--	2.9
2014	--	--	--	--	--	--	2.1
2015	--	--	--	--	--	--	16.5
2016	--	--	--	--	--	--	11.3
2017	--	--	--	--	--	--	23.0
Subtotal	331	--	--	--	--	--	135.7

Annual Funding 0300 Procurement Procurement, Defense-Wide							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	11	2.7	0.1	4.5	7.3	0.6	7.9
2000	--	--	--	--	--	--	--
2001	19	4.8	0.1	--	4.9	1.0	5.9
2002	--	--	--	--	--	0.3	0.3
2003	10	2.5	--	--	2.5	0.1	2.6
2004	--	--	--	--	--	--	--
2005	4	1.0	--	--	1.0	--	1.0
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	7	1.5	--	--	1.5	--	1.5
2011	5	1.1	--	--	1.1	--	1.1
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	2	0.5	--	--	0.5	--	0.5
2015	--	--	--	--	--	--	--
2016	--	--	--	--	--	--	--
2017	3	0.7	--	--	0.7	--	0.7
Subtotal	61	14.8	0.2	4.5	19.5	2.0	21.5

Annual Funding 0300 Procurement Procurement, Defense-Wide							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	11	2.8	0.1	4.7	7.6	0.6	8.2
2000	--	--	--	--	--	--	--
2001	19	4.8	0.1	--	4.9	1.0	5.9
2002	--	--	--	--	--	0.3	0.3
2003	10	2.4	--	--	2.4	0.1	2.5
2004	--	--	--	--	--	--	--
2005	4	0.9	--	--	0.9	--	0.9
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	7	1.3	--	--	1.3	--	1.3
2011	5	0.9	--	--	0.9	--	0.9
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	2	0.4	--	--	0.4	--	0.4
2015	--	--	--	--	--	--	--
2016	--	--	--	--	--	--	--
2017	3	0.5	--	--	0.5	--	0.5
Subtotal	61	14.0	0.2	4.7	18.9	2.0	20.9

This appropriation provides for the procurement of the Army unique MIDS Low Volume Terminal MIDS-LVT(2) and MIDS-LVT(11) variants for the Patriot Air Defense System, THAAD and GAPO.

Annual Funding 1506 Procurement Aircraft Procurement, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	16	5.9	1.3	0.5	7.7	0.3	8.0
2000	58	15.1	1.8	35.5	52.4	8.3	60.7
2001	64	20.2	3.7	0.2	24.1	2.5	26.6
2002	103	23.9	0.5	--	24.4	10.6	35.0
2003	116	22.7	3.6	--	26.3	10.4	36.7
2004	138	27.8	3.2	--	31.0	8.4	39.4
2005	130	25.7	2.9	--	28.6	13.8	42.4
2006	169	31.0	2.9	0.1	34.0	1.8	35.8
2007	169	35.2	3.0	--	38.2	5.2	43.4
2008	202	40.4	2.9	--	43.3	9.4	52.7
2009	127	28.5	2.9	--	31.4	1.0	32.4
2010	174	29.9	0.2	--	30.1	3.9	34.0
2011	147	29.1	0.2	--	29.3	3.9	33.2
2012	128	31.6	0.2	--	31.8	7.5	39.3
2013	262	74.8	--	--	74.8	--	74.8
2014	177	48.7	--	--	48.7	--	48.7
2015	161	45.7	--	--	45.7	--	45.7
2016	698	190.4	--	--	190.4	--	190.4
2017	85	67.6	--	--	67.6	--	67.6
2018	71	50.1	--	--	50.1	--	50.1
2019	92	74.0	--	--	74.0	--	74.0
2020	155	105.8	--	--	105.8	--	105.8
2021	119	118.7	--	--	118.7	--	118.7
2022	54	68.4	--	--	68.4	--	68.4
2023	41	50.2	--	--	50.2	--	50.2
2024	40	47.6	--	--	47.6	--	47.6
2025	38	45.3	--	--	45.3	--	45.3
2026	31	38.4	--	--	38.4	--	38.4
Subtotal	3765	1392.7	29.3	36.3	1458.3	87.0	1545.3

Annual Funding							
1506 Procurement Aircraft Procurement, Navy							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	16	6.1	1.3	0.5	7.9	0.3	8.2
2000	58	15.3	1.8	36.1	53.2	8.4	61.6
2001	64	20.2	3.8	0.2	24.2	2.5	26.7
2002	103	23.7	0.5	--	24.2	10.4	34.6
2003	116	22.0	3.5	--	25.5	10.1	35.6
2004	138	26.3	3.0	--	29.3	8.0	37.3
2005	130	23.6	2.7	--	26.3	12.7	39.0
2006	169	27.7	2.6	0.1	30.4	1.6	32.0
2007	169	30.8	2.6	--	33.4	4.5	37.9
2008	202	34.8	2.5	--	37.3	8.1	45.4
2009	127	24.2	2.5	--	26.7	0.8	27.5
2010	174	24.9	0.2	--	25.1	3.2	28.3
2011	147	23.7	0.2	--	23.9	3.2	27.1
2012	128	25.4	0.2	--	25.6	6.0	31.6
2013	262	59.6	--	--	59.6	--	59.6
2014	177	38.3	--	--	38.3	--	38.3
2015	161	35.4	--	--	35.4	--	35.4
2016	698	144.9	--	--	144.9	--	144.9
2017	85	50.6	--	--	50.6	--	50.6
2018	71	36.8	--	--	36.8	--	36.8
2019	92	53.4	--	--	53.4	--	53.4
2020	155	74.8	--	--	74.8	--	74.8
2021	119	82.3	--	--	82.3	--	82.3
2022	54	46.5	--	--	46.5	--	46.5
2023	41	33.4	--	--	33.4	--	33.4
2024	40	31.1	--	--	31.1	--	31.1
2025	38	29.0	--	--	29.0	--	29.0
2026	31	24.1	--	--	24.1	--	24.1
Subtotal	3765	1068.9	27.4	36.9	1133.2	79.8	1213.0

This appropriation identifies the MIDS Low Volume Terminal (MIDS-LVT) and MIDS Joint Tactical Radio System (MIDS JTRS) core, CMN4 and TTNT that are planned for the Navy.

This appropriation increased by 271 MIDS terminals.

Annual Funding								
1611 Procurement Shipbuilding and Conversion, Navy								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
2001	1	0.4	--	--	0.4	--	0.4	
2002	2	0.9	--	--	0.9	--	0.9	
2003	5	2.1	--	--	2.1	--	2.1	
2004	5	0.9	--	--	0.9	--	0.9	
2005	3	0.7	--	--	0.7	--	0.7	
2006	4	0.7	--	--	0.7	--	0.7	
2007	--	--	--	--	--	--	--	
2008	2	0.4	--	--	0.4	--	0.4	
2009	2	0.4	--	--	0.4	--	0.4	
2010	4	0.7	--	--	0.7	--	0.7	
2011	8	1.4	--	--	1.4	--	1.4	
2012	7	1.3	--	--	1.3	--	1.3	
2013	5	0.9	--	--	0.9	--	0.9	
2014	5	0.9	--	--	0.9	--	0.9	
2015	8	1.4	--	--	1.4	--	1.4	
2016	5	1.0	--	--	1.0	--	1.0	
2017	2	0.4	--	--	0.4	--	0.4	
2018	5	1.2	--	--	1.2	--	1.2	
2019	6	1.5	--	--	1.5	--	1.5	
2020	5	1.3	--	--	1.3	--	1.3	
2021	5	1.3	--	--	1.3	--	1.3	
2022	6	1.6	--	--	1.6	--	1.6	
2023	5	1.4	--	--	1.4	--	1.4	
Subtotal	100	22.8	--	--	22.8	--	22.8	

Annual Funding 1611 Procurement Shipbuilding and Conversion, Navy							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	1	0.4	--	--	0.4	--	0.4
2002	2	0.9	--	--	0.9	--	0.9
2003	5	1.9	--	--	1.9	--	1.9
2004	5	0.8	--	--	0.8	--	0.8
2005	3	0.6	--	--	0.6	--	0.6
2006	4	0.6	--	--	0.6	--	0.6
2007	--	--	--	--	--	--	--
2008	2	0.3	--	--	0.3	--	0.3
2009	2	0.3	--	--	0.3	--	0.3
2010	4	0.5	--	--	0.5	--	0.5
2011	8	1.0	--	--	1.0	--	1.0
2012	7	0.9	--	--	0.9	--	0.9
2013	5	0.6	--	--	0.6	--	0.6
2014	5	0.6	--	--	0.6	--	0.6
2015	8	0.9	--	--	0.9	--	0.9
2016	5	0.6	--	--	0.6	--	0.6
2017	2	0.2	--	--	0.2	--	0.2
2018	5	0.7	--	--	0.7	--	0.7
2019	6	0.9	--	--	0.9	--	0.9
2020	5	0.7	--	--	0.7	--	0.7
2021	5	0.7	--	--	0.7	--	0.7
2022	6	0.9	--	--	0.9	--	0.9
2023	5	0.8	--	--	0.8	--	0.8
Subtotal	100	15.8	--	--	15.8	--	15.8

This appropriation identifies the MIDS on Ship variant for new construction surface ships. This appropriation decreased by 9 MIDS terminals since the previous SAR.

Annual Funding							
1810 Procurement Other Procurement, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	3	1.1	--	--	1.1	--	1.1
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	--
2002	2	0.5	--	--	0.5	--	0.5
2003	6	1.7	--	--	1.7	--	1.7
2004	8	1.8	--	--	1.8	--	1.8
2005	--	--	--	--	--	0.1	0.1
2006	8	1.9	--	0.1	2.0	--	2.0
2007	17	3.8	--	--	3.8	0.6	4.4
2008	26	6.6	--	--	6.6	--	6.6
2009	6	1.2	--	--	1.2	--	1.2
2010	12	2.5	--	--	2.5	--	2.5
2011	44	9.8	--	--	9.8	--	9.8
2012	6	1.2	--	--	1.2	--	1.2
2013	26	7.0	--	--	7.0	--	7.0
2014	7	1.5	--	--	1.5	--	1.5
2015	16	3.0	--	--	3.0	--	3.0
2016	7	7.7	--	--	7.7	--	7.7
2017	8	5.1	--	--	5.1	--	5.1
2018	15	3.6	--	--	3.6	--	3.6
2019	10	2.4	--	--	2.4	--	2.4
2020	10	2.5	--	--	2.5	--	2.5
2021	5	1.3	--	--	1.3	--	1.3
Subtotal	242	66.2	--	0.1	66.3	0.7	67.0

Annual Funding 1810 Procurement Other Procurement, Navy							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	3	1.1	--	--	1.1	--	1.1
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	--
2002	2	0.5	--	--	0.5	--	0.5
2003	6	1.7	--	--	1.7	--	1.7
2004	8	1.7	--	--	1.7	--	1.7
2005	--	--	--	--	--	0.1	0.1
2006	8	1.7	--	0.1	1.8	--	1.8
2007	17	3.3	--	--	3.3	0.6	3.9
2008	26	5.7	--	--	5.7	--	5.7
2009	6	1.0	--	--	1.0	--	1.0
2010	12	2.1	--	--	2.1	--	2.1
2011	44	8.1	--	--	8.1	--	8.1
2012	6	1.0	--	--	1.0	--	1.0
2013	26	5.6	--	--	5.6	--	5.6
2014	7	1.2	--	--	1.2	--	1.2
2015	16	2.3	--	--	2.3	--	2.3
2016	7	5.9	--	--	5.9	--	5.9
2017	8	3.8	--	--	3.8	--	3.8
2018	15	2.7	--	--	2.7	--	2.7
2019	10	1.7	--	--	1.7	--	1.7
2020	10	1.8	--	--	1.8	--	1.8
2021	5	0.9	--	--	0.9	--	0.9
Subtotal	242	53.8	--	0.1	53.9	0.7	54.6

This appropriation decreased by 48 MIDS terminals since the previous SAR.

Annual Funding							
2035 Procurement Other Procurement, Army							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	1	0.3	--	--	0.3	--	0.3
2002	--	--	--	--	--	--	--
2003	4	1.0	--	--	1.0	0.4	1.4
2004	5	1.3	--	--	1.3	0.4	1.7
2005	62	15.7	--	--	15.7	1.2	16.9
2006	67	16.3	--	--	16.3	0.1	16.4
2007	40	9.4	--	--	9.4	1.1	10.5
2008	144	33.5	--	--	33.5	--	33.5
2009	29	6.4	--	--	6.4	2.2	8.6
2010	30	7.0	--	--	7.0	1.6	8.6
2011	22	4.8	--	--	4.8	1.0	5.8
2012	9	2.0	--	--	2.0	0.1	2.1
2013	5	3.3	--	--	3.3	0.4	3.7
2014	--	--	--	--	--	--	--
2015	2	0.1	--	--	0.1	--	0.1
2016	1	0.3	--	--	0.3	--	0.3
2017	1	12.3	--	--	12.3	--	12.3
2018	1	11.2	--	--	11.2	--	11.2
2019	1	4.6	--	--	4.6	--	4.6
2020	1	7.6	--	--	7.6	--	7.6
2021	1	8.4	--	--	8.4	--	8.4
2022	1	3.0	--	--	3.0	--	3.0
2023	1	2.2	--	--	2.2	--	2.2
Subtotal	428	150.7	--	--	150.7	8.5	159.2

Annual Funding							
2035 Procurement Other Procurement, Army							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	1	0.3	--	--	0.3	--	0.3
2002	--	--	--	--	--	--	--
2003	4	1.0	--	--	1.0	0.4	1.4
2004	5	1.2	--	--	1.2	0.4	1.6
2005	62	14.5	--	--	14.5	1.1	15.6
2006	67	14.7	--	--	14.7	0.1	14.8
2007	40	8.3	--	--	8.3	0.9	9.2
2008	144	29.0	--	--	29.0	--	29.0
2009	29	5.5	--	--	5.5	1.8	7.3
2010	30	5.9	--	--	5.9	1.3	7.2
2011	22	4.0	--	--	4.0	0.8	4.8
2012	9	1.6	--	--	1.6	0.1	1.7
2013	5	2.6	--	--	2.6	0.3	2.9
2014	--	--	--	--	--	--	--
2015	2	0.1	--	--	0.1	--	0.1
2016	1	0.2	--	--	0.2	--	0.2
2017	1	9.2	--	--	9.2	--	9.2
2018	1	8.3	--	--	8.3	--	8.3
2019	1	3.3	--	--	3.3	--	3.3
2020	1	5.4	--	--	5.4	--	5.4
2021	1	5.8	--	--	5.8	--	5.8
2022	1	2.0	--	--	2.0	--	2.0
2023	1	1.5	--	--	1.5	--	1.5
Subtotal	428	124.4	--	--	124.4	7.2	131.6

This appropriation provides for the procurement of the Army unique MIDS-LVT(2) and MIDS-LVT(11) variants. This appropriation decreased by 2 MIDS-LVT terminals since the previous SAR.

Annual Funding 3010 Procurement Aircraft Procurement, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	52	8.5	--	4.4	12.9	6.9	19.8
2002	150	32.5	--	--	32.5	10.2	42.7
2003	180	36.8	--	--	36.8	10.5	47.3
2004	137	24.3	--	--	24.3	13.8	38.1
2005	164	35.5	--	0.1	35.6	4.3	39.9
2006	129	25.1	--	--	25.1	1.7	26.8
2007	152	31.1	--	--	31.1	3.4	34.5
2008	52	14.7	--	--	14.7	4.4	19.1
2009	15	5.0	--	--	5.0	1.6	6.6
2010	51	13.0	--	--	13.0	2.4	15.4
2011	34	9.5	--	--	9.5	0.2	9.7
2012	83	25.8	--	--	25.8	--	25.8
2013	43	11.3	--	--	11.3	--	11.3
2014	61	11.5	--	--	11.5	--	11.5
2015	5	7.4	--	--	7.4	--	7.4
2016	3	0.9	--	--	0.9	--	0.9
2017	28	6.9	--	--	6.9	--	6.9
2018	360	87.9	--	--	87.9	--	87.9
2019	632	163.8	--	--	163.8	--	163.8
2020	387	110.7	--	--	110.7	--	110.7
2021	336	89.1	--	--	89.1	--	89.1
2022	227	58.6	--	--	58.6	--	58.6
2023	72	18.2	--	--	18.2	--	18.2
2024	33	7.6	--	--	7.6	--	7.6
2025	32	7.4	--	--	7.4	--	7.4
2026	33	7.6	--	--	7.6	--	7.6
2027	32	7.4	--	--	7.4	--	7.4
Subtotal	3483	858.1	--	4.5	862.6	59.4	922.0

Annual Funding 3010 Procurement Aircraft Procurement, Air Force							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	52	8.5	--	4.4	12.9	7.0	19.9
2002	150	32.2	--	--	32.2	10.1	42.3
2003	180	35.9	--	--	35.9	10.2	46.1
2004	137	23.1	--	--	23.1	13.1	36.2
2005	164	32.8	--	0.1	32.9	3.9	36.8
2006	129	22.6	--	--	22.6	1.5	24.1
2007	152	27.2	--	--	27.2	3.0	30.2
2008	52	12.7	--	--	12.7	3.8	16.5
2009	15	4.2	--	--	4.2	1.4	5.6
2010	51	10.8	--	--	10.8	2.0	12.8
2011	34	7.8	--	--	7.8	0.1	7.9
2012	83	20.8	--	--	20.8	--	20.8
2013	43	8.9	--	--	8.9	--	8.9
2014	61	9.0	--	--	9.0	--	9.0
2015	5	5.7	--	--	5.7	--	5.7
2016	3	0.7	--	--	0.7	--	0.7
2017	28	5.1	--	--	5.1	--	5.1
2018	360	64.1	--	--	64.1	--	64.1
2019	632	117.1	--	--	117.1	--	117.1
2020	387	77.6	--	--	77.6	--	77.6
2021	336	61.2	--	--	61.2	--	61.2
2022	227	39.5	--	--	39.5	--	39.5
2023	72	12.0	--	--	12.0	--	12.0
2024	33	4.9	--	--	4.9	--	4.9
2025	32	4.7	--	--	4.7	--	4.7
2026	33	4.7	--	--	4.7	--	4.7
2027	32	4.5	--	--	4.5	--	4.5
Subtotal	3483	658.3	--	4.5	662.8	56.1	718.9

This appropriation identifies the MIDS Low Volume Terminal (MIDS-LVT) and MIDS Joint Tactical Radio System (MIDS JTRS) terminals that are planned for the Air Force shore.

This appropriation increased by 227 MIDS terminals since the previous SAR.

Annual Funding							
3080 Procurement Other Procurement, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1996	6	3.0	--	--	3.0	--	3.0
1997	--	--	--	0.3	0.3	--	0.3
1998	77	18.5	--	15.2	33.7	1.0	34.7
1999	173	33.0	0.3	--	33.3	2.1	35.4
2000	294	49.8	0.7	0.5	51.0	3.8	54.8
2001	148	26.7	0.6	4.4	31.7	1.0	32.7
2002	97	18.6	--	5.6	24.2	--	24.2
2003	30	0.4	--	--	0.4	5.3	5.7
2004	--	--	--	--	--	--	--
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	--
2015	1	0.3	--	--	0.3	--	0.3
2016	--	--	--	--	--	--	--
2017	7	1.7	--	--	1.7	--	1.7
Subtotal	833	152.0	1.6	26.0	179.6	13.2	192.8

Annual Funding							
3080 Procurement Other Procurement, Air Force							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1996	6	3.2	--	--	3.2	--	3.2
1997	--	--	--	0.3	0.3	--	0.3
1998	77	19.2	--	15.8	35.0	1.0	36.0
1999	173	33.8	0.3	--	34.1	2.2	36.3
2000	294	50.3	0.7	0.5	51.5	3.9	55.4
2001	148	26.6	0.6	4.3	31.5	1.0	32.5
2002	97	18.2	--	5.5	23.7	--	23.7
2003	30	0.4	--	--	0.4	5.2	5.6
2004	--	--	--	--	--	--	--
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	--
2015	1	0.2	--	--	0.2	--	0.2
2016	--	--	--	--	--	--	--
2017	7	1.3	--	--	1.3	--	1.3
Subtotal	833	153.2	1.6	26.4	181.2	13.3	194.5

This appropriation identifies the MIDS Fighter Data Link (FDL) terminals for the Air Force that are being procured on a separate contract. The FY 1996 funding (TY \$3.0M) reports the United States Air Force funds contributed to the qualification and build of six FDL terminals. Additional funds in excess of \$8.0M were contributed by the contractor, Data Link Solutions L.L.C., for completion of the full qualification program requirements.

This appropriation decreased by 3 MIDS terminals since the previous SAR.

Annual Funding							
0350 Procurement National Guard and Reserve Equipment ,Defense							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2016	25	6.3	--	--	6.3	--	6.3
2017	2	0.5	--	--	0.5	--	0.5
Subtotal	27	6.8	--	--	6.8	--	6.8

Annual Funding							
0350 Procurement National Guard and Reserve Equipment ,Defense							
Fiscal Year	Quantity	BY 2003 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2016	25	4.8	--	--	4.8	--	4.8
2017	2	0.4	--	--	0.4	--	0.4
Subtotal	27	5.2	--	--	5.2	--	5.2

This appropriation increased by 27 MIDS terminals since the previous SAR.

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	5/11/2000	12/8/2003
Approved Quantity	70	544
Reference	Milestone II ADM	Milestone C ADM
Start Year	2000	2000
End Year	2001	2003

The MDA authorized LRIP on May 11, 2000 for 70 MIDS Low Volume Terminal (MIDS-LVT). Three additional LRIP decisions were authorized for a cumulative total of 544 MIDS-LVT and MIDS-LVT(2) variants (about 25 percent of the then planned procurement of 2,145 terminals). Based on a Milestone C decision in 2003 for the MIDS program, USD (AT&L) General Counsel and senior staff changed the title of the 2009 DAB decision for MIDS JTRS to Limited Production and Fielding (LP&F). A follow-on decision for the MIDS JTRS variant was made for Full Production and Fielding (FP&F), and not FRP. On December 23, 2009 an ADM approved the award of the limited production of 41 MIDS JTRS variant terminals to support the Navy production schedule and Joint Surveillance Target Attack Radar System (JSTARS) integration and testing requirements. On January 31, 2011, an ADM approved an award of a second limited production for 42 MIDS JTRS variant terminals to support Navy production, Air Force and other Service requirements.

Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Description
United Kingdom	11/13/2017	42	11.3	Total Costs are cumulative over multiple years and FMS cases (UK-D-SAO; UK-P-LVE; UK-P-LVR; UK-P-SAN; UK-P-LVQ). Date of sale listed is the most current buy.
Finland	9/20/2017	128	25.1	Total Costs are cumulative over multiple years and FMS cases (FI-P-LBC; FI-P-LBD; FI-P-LBH; FI-P-LBJ). Date of sale listed is the most current buy.
Switzerland	9/20/2017	73	17.6	Date of sale listed is the most current buy on FMS case SZ-P-LAC; SZ-P-LAH; SZ-P-LAN.
Romania	8/21/2017	22	4.0	Total Cost is cumulative over multiple years. Date of sale listed is the most current buy on FMS case RO-D-QAH.
South Korea	8/21/2017	34	9.2	Total Costs are cumulative over multiple years and FMS cases (KS-P-BTV; KS-P-GOL; KS-P-LPN; KS-P-QDW; KS-P-BVB; KS-P-LAA; KS-P-BTZ). Date of sale listed is the most current buy.
Singapore	5/23/2017	42	3.5	Total Costs are cumulative over multiple years and FMS cases (SN-D-SAA; SN-D-SAC; SN-D-BAA; SN-D-QAT). Date of sale listed is the most current buy. *Not all cost data is available. 20 terminals without pricing.*
Japan	4/25/2017	185	39.5	Total Costs are cumulative over multiple years and FMS cases (JA-P-LTY; JA-P-LTD; JA-P-LTV; JA-P-LUD; JA-P-LVM; JA-P-LVY; JA-P-LUO; JA-P-LUP; JA-P-LVE; JA-P-LWC; JA-P-LWJ; JA-P-LWO; JA-P-LXB; JA-P-LXC; JA-P-LXD; JA-P-LXE; JA-P-LXF; JA-P-LXM; JA-P-LXN; JA-P-LXO; JA-P-LYC; JA-P-LYL; JA-P-LYQ; JA-P-LYP; JA-P-LYT; JA-P-LYV; JA-P-LYX; JA-P-LZG; JA-P-NAF; JA-P-NAG; JA-P-NAJ; JA-P-NAL; JA-P-NAU; JA-P-SCJ; JA-P-LZM; JA-P-LZQ). Date of sale listed is the most current buy.
Australia	4/3/2017	288	63.9	Total Costs are cumulative over multiple years and FMS cases (AT-D-QCI; AT-P-GOV; AT-P-LAB; AT-P-LCE; AT-P-LCK; AT-P-LCQ; AT-P-LDN; AT-P-LER; AT-P-LET; AT-P-SAF; AT-P-SCF; AT-P-SCI; AT-P-LFA; AT-P-LFG; AT-P-LFO). Date of sale listed is the most current buy.
NATO	4/3/2017	3	1.8	Total Cost are cumulative over multiple years and date of sale is most current buy for FMS cases (W3-P-LAB; A6-P-LAC).
Portugal	3/20/2017	50	9.5	Total Costs are cumulative over multiple years and FMS cases (PT-D-NAE; PT-P-LDH; PT-P-LDL). Date of sale listed is the most current buy.
Chile	9/8/2016	25	4.5	Total Cost is cumulative. Date of sale listed is the most current buy on FMS case CI-P-LCW.

Norway	9/8/2016	81	23.6	Total Costs are cumulative over multiple years and FMS cases (NO-D-OAF; NO-D-OAG; NO-P-LBE; NO-P-LBO; NO-P-LCQ). Date of sale listed is the most current buy.
Saudi Arabia	9/8/2016	374	43.4	Total Costs are cumulative over multiple years and FMS cases (SR-D-QAB; SR-D-SAI, SR-P-LCO; SR-D-QBP; SR-P-LCH). Date of sale listed is the most current buy. *Not all cost data is available. 165 terminals without pricing.*
Turkey	9/8/2016	316	63.1	Total Costs are cumulative over multiple years and FMS cases (TK-D-NCU; TK-P-LKT; TK-D-SMB; TK-D-OAD). Date of sale listed is the most current buy.
Taiwan	3/10/2016	248	71.1	Total Costs are cumulative over multiple years and FMS cases (TW-P-GNU; TW-B-YYV; TW-P-GMK; TW-P-LEJ; TW-P-SEG; TW-P-GMG; TW-D-QBZ). Date of sale listed is the most current buy.
Philippines	2/19/2016	15	2.8	Total Cost and date of sale is the most current buy.
Poland	2/19/2016	95	19.5	Total Costs are cumulative over multiple years and FMS cases (PL-D-SAC; PL-P-LAM; PL-P-LBA). Date of sale listed is the most current buy.
Kuwait	9/24/2015	4	0.9	Date of sale listed is the most current buy on FMS case KU-B-UMG.
Netherlands	9/24/2015	10	5.4	Total Costs are cumulative over multiple years and FMS cases (NE-P-LFT; NE-P-LGT). Date of sale listed is the most current buy.
Oman	8/31/2015	72	13.7	Total Costs are cumulative over multiple years and FMS cases (MU-D-SAB; MU-P-LAP). Date of sale listed is the most current buy.
Thailand	8/31/2015	24	4.5	Total Costs are cumulative over multiple years and FMS cases (TH-D-QCZ; TH-P-LFA). Date of sale listed is the most current buy.
Belgium	1/20/2015	84	18.2	Total Costs are cumulative over multiple years and FMS cases (BE-D-DZV; BE-D-QAT, BE-P-LBB). Date of sale listed is the most current buy.
Canada	1/20/2015	144	31.3	Total Costs are cumulative over multiple years and FMS cases (CN-P-LHF; CN-P-LHS; CN-P-LIC; CN-P-LIQ; CN-P-LJC, CN-P-LJR). Date of sale listed is the most current buy.
New Zealand	9/30/2014	8	1.6	Date of sale listed is the most current buy on FMS case (NZ-P-LAJ; NZ-P-LAZ; NZ-P-LAU).
Jordan	8/7/2014	34	5.6	Total Costs are cumulative over multiple years and FMS cases (JO-P-LAZ; JO-P-LBG; JO-D-QBK). Date of sale listed is the most current buy.
United Arab Emirates	8/5/2013	19	3.3	Total Costs are cumulative over multiple years and FMS cases (AE-P-LAA; AE-B-UAF; AE-B-ZUG). Date of sale listed is the most current buy.
Hungary	9/16/2010	22	4.5	Date of sale listed is the most current buy on FMS case HU-P-LAD.
Pakistan	9/16/2010	68	16.1	Total Costs are cumulative over multiple years and FMS cases (PK-D-NAP; PK-D-SAF). Date of sale listed is the most current buy.

Morocco	5/14/2010	30	4.8	Date of sale listed is the most current buy on FMS case MO-D-SAY.
Greece	12/22/2008	40	6.9	Total Costs are cumulative over multiple years and FMS cases (GR-B-XJU; GR-D-SNY). Date of sale listed is the most current buy.
Austria	5/12/2008	24	0.0	FMS total costs not releasable for Austria. AU-P-LAD.
Sweden	8/28/2006	28	4.9	Date of sale listed is the most current buy on FMS case SW-P-LAO.
Germany	2/20/2004	10	6.4	Date of sale listed is the most current buy on FMS case GY-P-LGI.
Denmark	5/16/2002	3	0.9	Date of sale listed is the most current buy on FMS case DE-D-OAB.

Notes

The above FMS cases, with the exception of United Kingdom (UK-D-SAO; UK-P-LVE) and Australia (AT-P-SCI; AT-P-LFA) for MIDS Joint Tactical Radio System (MIDS JTRS) terminals, are for MIDS Low Volume Terminals (MIDS-LVT).

Direct Commercial Sales (DCS) totaling 971 MIDS-LVT terminals have been implemented to date with Australia, Belgium, Denmark, Greece, Iceland, Japan, Korea, North Atlantic Treaty Organization (NATO) Air Command and Control System (ACCS) Management Agency (NACMA), Netherlands, NATO EuroFighter 2000 and Tornado Management Agency, Norway, Poland, Singapore, Sweden, Turkey and United Kingdom. (Cost information for direct commercial sales is not available nor is date of sale). Per CJCSI 6510.0C, DCS sales for MIDS-LVT and MIDS JTRS are no longer sanctioned, except for a case-by-case basis with Australia, Canada, New Zealand, and the United Kingdom, or a one-time waiver has already been obtained.

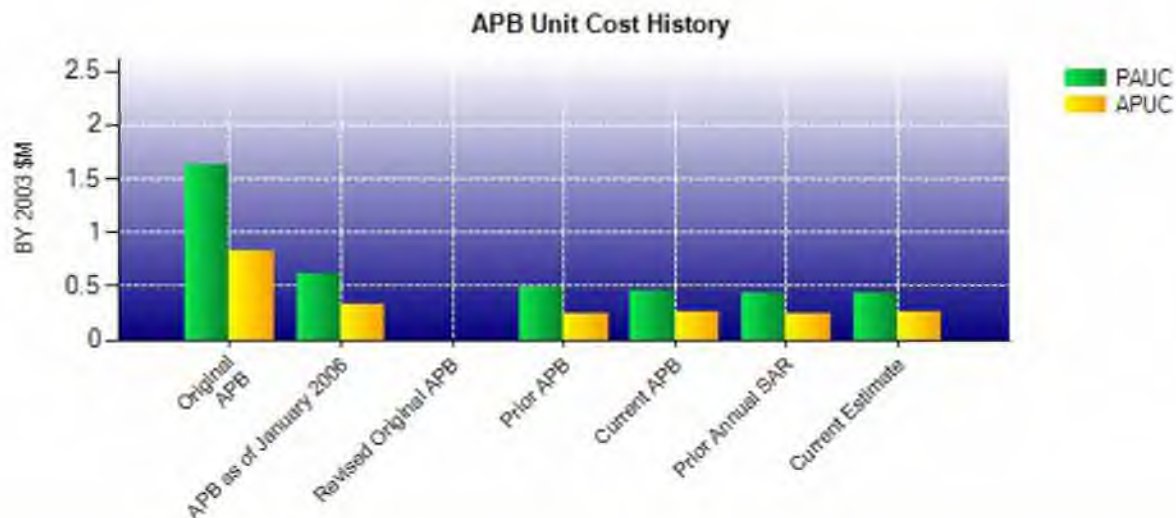
Between June 2017 and November 2017, 21 MIDS-LVT terminals at a cost of \$3.67M were implemented; also during this time, 68 MIDS JTRS terminals at a cost of \$16.95M were implemented through FMS.

Nuclear Costs

None

Unit Cost

Current UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2003 \$M	BY 2003 \$M	% Change
	Current UCR Baseline (Nov 2017 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	4070.4	4232.0	
Quantity	9128	9646	
Unit Cost	0.446	0.439	-1.57
Average Procurement Unit Cost			
Cost	2220.5	2354.5	
Quantity	8469	8939	
Unit Cost	0.262	0.263	+0.38
Original UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2003 \$M	BY 2003 \$M	% Change
	Original UCR Baseline (Mar 1994 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	1091.4	4232.0	
Quantity	672	9646	
Unit Cost	1.624	0.439	-72.97
Average Procurement Unit Cost			
Cost	523.7	2354.5	
Quantity	630	8939	
Unit Cost	0.831	0.263	-68.35



APB Unit Cost History					
Item	Date	BY 2003 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Mar 1994	1.625	0.831	1.666	0.931
APB as of January 2006	Jun 2004	0.616	0.339	0.614	0.352
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Nov 2013	0.486	0.243	0.535	0.276
Current APB	Nov 2017	0.446	0.262	0.524	0.325
Prior Annual SAR	Dec 2016	0.431	0.247	0.502	0.301
Current Estimate	Dec 2017	0.439	0.263	0.519	0.329

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
1.670	-0.023	-1.090	0.015	-0.017	0.058	0.000	0.001	-1.056	0.614

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.614	0.001	-0.161	-0.008	0.059	0.011	0.000	0.003	-0.095	0.519

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.931	-0.019	-0.520	0.016	-0.036	-0.021	0.000	0.001	-0.579	0.352

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.352	0.001	0.029	-0.009	-0.016	-0.030	0.000	0.002	-0.023	0.329

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone II	N/A	Dec 1993	Dec 1993	Dec 1993
Milestone III	N/A	N/A	N/A	Dec 1999
IOC	N/A	Dec 2000	N/A	Jan 2001
Total Cost (TY \$M)	N/A	1119.5	1818.9	5003.6
Total Quantity	N/A	672	2964	9646
PAUC	N/A	1.666	0.614	0.519

The baseline includes separate Milestone (MS) III decisions for the MIDS Low Volume Terminal (MIDS-LVT) Variant (1) and MIDS-LVT Variant (3) and a separate IOC for each MIDS variant. A MS III decision was originally planned for the United States Army unique MIDS-LVT Variant (2) but it was replaced by an FRP decision approved by the Assistant Secretary of the Navy (Research, Development and Acquisition) in an ADM dated December 8, 2003.

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	825.8	993.1	--	1818.9
Previous Changes				
Economic	+5.8	+12.3	--	+18.1
Quantity	+130.8	+2195.2	--	+2326.0
Schedule	-0.2	-71.7	--	-71.9
Engineering	+705.6	-127.8	--	+577.8
Estimating	+358.2	-468.6	--	-110.4
Other	--	--	--	--
Support	+3.7	+20.9	--	+24.6
Subtotal	+1203.9	+1560.3	--	+2764.2
Current Changes				
Economic	-1.5	-6.6	--	-8.1
Quantity	+17.3	+214.5	--	+231.8
Schedule	--	-7.6	--	-7.6
Engineering	--	-13.1	--	-13.1
Estimating	+20.7	+196.8	--	+217.5
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+36.5	+384.0	--	+420.5
Total Changes	+1240.4	+1944.3	--	+3184.7
Current Estimate	2066.2	2937.4	--	5003.6

Summary BY 2003 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	869.4	955.4	--	1824.8
Previous Changes				
Economic	--	--	--	--
Quantity	+114.2	+1626.7	--	+1740.9
Schedule	-0.4	-27.7	--	-28.1
Engineering	+592.9	-94.8	--	+498.1
Estimating	+270.6	-389.5	--	-118.9
Other	--	--	--	--
Support	+3.2	+17.7	--	+20.9
Subtotal	+980.5	+1132.4	--	+2112.9
Current Changes				
Economic	--	--	--	--
Quantity	+13.2	+140.8	--	+154.0
Schedule	--	-4.7	--	-4.7
Engineering	--	-8.6	--	-8.6
Estimating	+14.4	+139.2	--	+153.6
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+27.6	+266.7	--	+294.3
Total Changes	+1008.1	+1399.1	--	+2407.2
Current Estimate	1877.5	2354.5	--	4232.0

Previous Estimate: December 2016

RDT&E		\$M	
Current Change Explanations		Base Year	Then Year
Revised escalation indices. (Economic)		N/A	-1.5
Quantity variance from an increase of 38 MIDS Joint Tactical Radio System (JTRS) terminals (Air Force). (Quantity)		+7.1	+9.3
Quantity variance resulting in an increase of 12 MIDS JTRS terminals (Navy). (Quantity)		+6.1	+8.0
Additional funding in FY 2017 for Investigation Reports and Development for implementation of MIDS JTRS to Air Force Platforms (Air Force). (Estimating)		+11.9	+15.5
De-obligation of funding in FY 2016 for Investigation Reports for MIDS JTRS for Air Force Platforms (Air Force). (Estimating)		-0.1	-0.1
Revised estimate to align with FY 2019 PB (Navy). (Estimating)		+5.9	+9.5
Revised estimate, erroneously included other Navy platform funding in December 2016 SAR. (Estimating)		-7.1	-9.2
Additional funding in FY 2017 for Investigation Reports and Development for implementation of MIDS JTRS to other Navy platforms (Navy). (Estimating)		+2.7	+3.5
Adjustment for current and prior escalation. (Estimating)		+0.3	+0.4
Revised estimate for rate adjustments (Navy). (Estimating)		+0.8	+1.1
RDT&E Subtotal		+27.6	+36.5

Procurement		\$M	
Current Change Explanations		Base Year	Then Year
Revised escalation indices. (Economic)		N/A	-6.6
Total quantity variance resulting from an increase of 27 terminals from 0 to 27 (National Guard and Reserve Equipment, Defense (NGRED)). (Subtotal)		+5.6	+7.3
Quantity variance resulting from an increase of 27 terminals from 0 to 27 (NGRED). (Quantity)		(+7.9)	(+10.3)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)		(-0.2)	(-0.3)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)		(-0.4)	(-0.5)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)		(-1.7)	(-2.2)
Total Quantity variance resulting from an increase of 227 Terminals from 3,256 to 3,483 (Aircraft Procurement, Air Force (APAF)). (Subtotal)		+46.1	+71.7
Total Quantity variance resulting from an increase of 227 Terminals from 3,256 to 3,483 (APAF). (Quantity)		(+68.1)	(+105.8)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)		(-2.3)	(-3.6)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)		(-4.2)	(-6.5)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)		(-15.5)	(-24.0)
Total Quantity variance resulting from an increase of two terminals from 426 to 428 (Other Procurement, Army (OPA)). (Subtotal)		+0.4	+0.6
Total Quantity variance resulting from an increase of two terminals from 426 to 428 (OPA). (Quantity)		(+0.6)	(+0.8)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)		(-0.2)	(-0.2)
Total Quantity variance resulting from a decrease of 48 Terminals from 290 to 242 (Other Procurement, Navy (OPN)). (Subtotal)		-9.8	-13.5
Total Quantity variance resulting from a decrease of 48 Terminals from 290 to 242 (OPN). (Quantity)		(-14.3)	(-19.6)

Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(+0.5)	(+0.6)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(+0.9)	(+1.2)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+3.1)	(+4.3)
Total Quantity variance resulting from a decrease of three Terminals from 836 to 833 (Other Procurement, Air Force (OPAF)) (Subtotal)	-0.6	-0.9
Total Quantity variance resulting from a decrease of three Terminals from 836 to 833 (OPAF). (Quantity)	(-0.9)	(-1.2)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+0.3)	(+0.3)
Total Quantity variance resulting from a decrease of nine Terminals from 109 to 100 (Ship Construction, Navy (SCN)). (Subtotal)	-1.8	-3.4
Total Quantity variance resulting from a decrease of nine Terminals from 109 to 100 (SCN). (Quantity)	(-2.7)	(-5.0)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(+0.1)	(+0.2)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(+0.2)	(+0.4)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+0.6)	(+1.0)
Total Quantity variance resulting from an increase of 271 Terminals from 3,494 to 3,765 (Aircraft Procurement, Navy (APN)). (Subtotal)	+55.0	+82.7
Total Quantity variance resulting from an increase of 271 Terminals from 3,494 to 3,765 (APN). (Quantity)	(+81.2)	(+122.2)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-2.8)	(-4.2)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(-5.0)	(-7.6)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(-18.4)	(-27.7)
Total Quantity variance resulting from an increase of three Terminals from 58 to 61 (Procurement, Defense Wide (PDW)). (Subtotal)	+0.6	+0.8
Total Quantity variance resulting from an increase of three Terminals from 58 to 61 (PDW). (Quantity)	(+0.9)	(+1.2)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(-0.1)	(-0.1)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(-0.2)	(-0.3)
Acceleration of procurement buy profile from FY 2019 to FY 2017 (APN). (Schedule) (QR)	0.0	-2.2
Stretch-out of procurement buy profile from FY 2018 to FY 2022 which lengthened the buying period by one year (OPN). (Schedule) (QR)	0.0	+0.4
Stretch-out of procurement buy profile moving purchases from FY 2019 to FY 2020 into FY 2021 to FY 2022 timeframe (APAF). (Schedule) (QR)	0.0	+1.5
Revised estimation due to updated terminal cost estimates (PDW). (Estimating) (QR)	-0.1	-0.1
Revised estimation due to updated terminal cost estimates (APN). (Estimating) (QR)	+187.1	+272.1
Revised estimation due to updated terminal cost estimates (SCN). (Estimating) (QR)	-6.3	-11.4
Revised estimation due to updated terminal cost estimates (OPN). (Estimating) (QR)	-11.5	-16.2
Revised estimation due to updated terminal cost estimates (OPA). (Estimating) (QR)	-0.2	0.0
Revised estimation due to updated terminal cost estimates (APAF). (Estimating) (QR)	+6.8	+7.7
Revised estimation due to updated terminal cost estimates (OPAF). (Estimating) (QR)	-5.6	-7.6
Revised estimation due to updated terminal cost estimates (NGRED). (Estimating) (QR)	-0.4	-0.5
Adjustment for current and prior escalation. (Estimating)	+1.4	+1.6
Procurement Subtotal	+266.7	+384.0

(QR) Quantity Related

Contracts

Contract Identification	
Appropriation:	Procurement
Contract Name:	MIDS JTRS Production Contract
Contractor:	BAE Systems/Rockwell Collins Data Link Solutions L.L.C. (DLS)
Contractor Location:	350 Collins Rd NE Cedar Rapids, IA 52498
Contract Number:	N00039-15-D-0007
Contract Type:	Indefinite Delivery Indefinite Quantity (IDIQ), Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF)
Award Date:	June 17, 2015
Definitization Date:	June 17, 2015

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
50.1	N/A	153	251.8	N/A	634	478.6	478.6

Target Price Change Explanation
The difference between the Initial Contract Price Target and the Current Contract Price Target is due to exercising options on the IDIQ contract for award of more Delivery Orders (non-Earned Value).

Cost and Schedule Variance Explanations
Cost and Schedule Variance reporting is not required on this (IDIQ/FFP/CPFF) contract.

General Contract Variance Explanation
Cost and schedule variances are not reported for this contract, because this is the Production (FFP) and maintenance (CPFF-below threshold for EVM) contract for MIDS JTRS terminals.

Notes
The overall value with all Options included of this contract is \$478.6M. In the future, more IDIQ orders will be awarded and options exercised increasing the current of the contract.

This production contract includes nonrecurring engineering, supportability, and the manufacture of MIDS Joint Tactical Radio terminals. FMS are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price IDIQ contract. Delivery Orders are competed between two vendors, ViaSat and DLS. Current Contract Target Price reflects orders awarded to this vendor.

Contract Identification

Appropriation: Procurement
Contract Name: MIDS Production Contract
Contractor: ViaSat, INC
Contractor Location: 6155 El Camino Real
 Carlsbad, CA 92009
Contract Number: N00039-15-D-0008
Contract Type: Indefinite Delivery Indefinite Quantity (IDIQ), Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF)
Award Date: May 28, 2015
Definitization Date: May 28, 2015

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
19.6	N/A	42	199.0	N/A	572	478.6	478.6

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to exercising options on the IDIQ contract for award of more Delivery Orders (non-Earned Value).

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (IDIQ/FFP/CPFF) contract.

General Contract Variance Explanation

Cost and schedule variances are not reported for this contract, because this is the Production (FFP) and maintenance (CPFF-below threshold for EVM) contract for MIDS JTRS terminals.

Notes

The overall value with all Options included of this contract is \$478.6M. In the future, more IDIQ orders will be awarded and options exercised increasing the current of the contract.

This production contract includes nonrecurring engineering, supportability, and the manufacture of MIDS Joint Tactical Radio System terminal. FMS are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price IDIQ contract. Delivery Orders are competed between two vendors, ViaSat and DLS. Current Contract Target Price reflects orders awarded to this vendor.

Contract Identification

Appropriation: Procurement
Contract Name: MIDS-LVT Production Contract
Contractor: BAE Systems/Rockwell Collins Data Link Solutions L.L.C. (DLS)
Contractor Location: 350 Collins Rd NE
 Cedar Rapids, IA 52498
Contract Number: N00039-15-D-0042
Contract Type: Indefinite Delivery Indefinite Quantity (IDIQ), Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF)
Award Date: August 27, 2015
Definitization Date: August 27, 2015

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
14.6	N/A	57	27.9	N/A	91	538.5	538.5

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to exercising options on the IDIQ contract for award of more Delivery Orders (non-Earned Value).

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (IDIQ/FFP/CPFF) contract.

General Contract Variance Explanation

Cost and schedule variances are not reported for this contract, because this is the Production (FFP) and maintenance (CPFF-below threshold for EVM) contract for MIDS JTRS terminals.

Notes

The overall value with all Options included of this contract is \$538.5M. In the future, more IDIQ orders will be awarded and options exercised increasing the current of the contract.

This production contract includes nonrecurring engineering, supportability, and the manufacture of MIDS-Low Volume Terminal (MIDS-LVT). FMS are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price IDIQ contract. Delivery Orders are competed between two vendors, ViaSat and DLS. Current Contract Target Price reflects orders awarded to this vendor.

Contract Identification

Appropriation: Procurement
Contract Name: MIDS Production Contract
Contractor: ViaSat, INC
Contractor Location: 6155 El Camino Real
 Carlsbad, CA 92009
Contract Number: N00039-15-D-0043
Contract Type: Indefinite Delivery Indefinite Quantity (IDIQ), Firm Fixed Price (FFP), Cost Plus Fixed Fee (CPFF)
Award Date: August 21, 2015
Definitization Date: August 21, 2015

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
5.1	N/A	26	26.4	N/A	84	514.3	514.3

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to exercising options on the IDIQ contract for award of more Delivery Orders (non-Earned Value).

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (IDIQ/FFP/CPFF) contract.

General Contract Variance Explanation

Cost and schedule variances are not reported for this contract, because this is the Production (FFP) and maintenance (CPFF-below threshold for EVM) contract for MIDS JTRS terminals.

Notes

The overall value with all Options included of this contract is \$514.3M. In the future, more IDIQ orders will be awarded and options exercised increasing the current of the contract.

This production contract includes nonrecurring engineering, supportability, and the manufacture of MIDS-Low Volume Terminal (MIDS-LVT). FMS are not included in the supplemental contract cost information.

This is a Multiple Award Firm Fixed Price IDIQ contract. Delivery Orders are competed between two vendors, ViaSat and DLS. Current Contract Target Price reflects orders awarded to this vendor.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	625	625	707	88.40%
Production	5209	5213	8939	58.32%
Total Program Quantity Delivered	5834	5838	9646	60.52%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	5003.6	Years Appropriated	29
Expended to Date	3445.6	Percent Years Appropriated	76.32%
Percent Expended	68.86%	Appropriated to Date	3787.5
Total Funding Years	38	Percent Appropriated	75.70%

The above data is current as of February 12, 2018.

Total deliveries listed above do not contain EuroMIDS (non-U.S. vendor) terminals (which are not reported in the SAR).

There was an error in the 2016 SAR that was counting some FMS terminals in the scheduled and actual delivered for development. The error has been corrected. The total number of scheduled and actual has decreased from the 2016 SAR report by 25, but this is accurate to not include any FMS quantities as those are reported in the International section.

Operating and Support Cost

Cost Estimate Details

Date of Estimate:	January 12, 2018
Source of Estimate:	POE
Quantity to Sustain:	8939
Unit of Measure:	Terminal
Service Life per Unit:	20.00 Years
Fiscal Years in Service:	FY 1996 - FY 2047

The POE reflects an updated forecast of the quantity of MIDS terminals. The O&S costs are based on an estimate which was evaluated by the Air Force Cost Analysis Agency (AFCAA) and Naval Center for Cost Analysis in support of the MIDS Joint Tactical Radio System (JTRS) Full Production & Fielding (FP&F) decision. The quantity of 8939 includes U.S. only terminals currently fielded and on contract plus known requirements for FY 2015 through FY 2047. This period includes a phase-in, steady state, and phase-down profile.

The current production terminal procurement estimate increased by a total of 470 terminals due to the increased procurement orders from the U.S. Navy and Air Force. The current Development units increased by 48 terminals and do not have any sustainment costs associated to them.

The 707 development terminals have no sustainment costs.

Sustainment Strategy

For Navy aircraft and Army platforms, maintenance is a three-level structure (i.e. Organizational, Intermediate/Direct Support and Depot). For Navy ships and Air Force aircraft platforms it is a two-level structure (i.e. Organizational and Depot). Navy aircraft support costs assume the use of the Consolidated Automated Support System at the Intermediate level of maintenance. The terminal reliability and maintainability characteristics used are consistent with the requirements contained in the ORD.

Antecedent Information

No Antecedent. The MIDS Low Volume Terminal (MIDS-LVT) does not replace an existing DoD system because it provides Link 16 capability to platforms that were unable to employ analogous systems due to space and weight constraints. The MIDS JTRS terminal is a form, fit, and function replacement and upgrade for MIDS-LVT in selected DoD systems.

Annual O&S Costs BY2003 \$K		
Cost Element	MIDS Average Annual Cost Per Terminal	No Antecedent (Antecedent)
Unit-Level Manpower	0.250	--
Unit Operations	0.000	--
Maintenance	0.440	--
Sustaining Support	4.120	--
Continuing System Improvements	5.430	--
Indirect Support	0.000	--
Other	0.000	--
Total	10.240	--

Item	Total O&S Cost \$M			
	MIDS			No Antecedent (Antecedent)
	Current Production APB Objective/Threshold		Current Estimate	
Base Year	1734.5	1908.0	1830.7	N/A
Then Year	1865.5	N/A	3095.9	N/A

Equation to Translate Annual Cost to Total Cost

The calculation of total O&S costs is based on total quantities of 8939 multiplied by an economic life of 20 years multiplied by a unit cost of \$10.24K per year. The 707 development terminals have no sustainment costs.

O&S Cost Variance		
Category	BY 2003 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2016 SAR	1734.5	
Programmatic/Planning Factors	96.2	Increased quantity
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	96.2	
Current Estimate	1830.7	

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 2003 \$M):

Disposal costs are not identified at this time. MIDS expects the disposal estimate to be included in the 2018 SAR.